"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9

MASAGUTOV, R.M.; BERG, G.A.; VARFOLOMEYEV, D.F.; SELIVANOV, T.I.; RUGAY, Ye.A.; MUKHAMETOV, M.N.; KULINICH, G.M.; SOKOLOVA, V.I.; KIRILLOV, T.S.

Hydrogenation of benzene on a nickel catalyst on kieselguhr. Trudy BashNII NP no.7:127-133 '64. (MIRA 17:9)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9

MUKHAMETOV, N.Kh., master

Increasing the voltage rating of the Ts^{20} current measuring tongs.
Energetik 9 no.8:18 Ag '61. (MIRA 14:8)
(Electric measurements)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9

[illegible], R.Yu., [illegible] "[illegible] morphology of [illegible] seeds." Ufa, 1959. [illegible] (Academy [illegible] Union Komsomol)
[illegible] (VI,26-58,136)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9

MUKHAMETOV, R. Yu.

Occurrence of diphyllobothriasis among the population of riverside areas of the Tatar A.S.S.R. Med. paraz. i paraz. bol. 34 no.2:145-148 Mr-Ap '65. (MIRA 18:11)

1. Kafedra obshchey biologii Kazanskogo meditsinskogo instituta.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9

MUKHAMETOV, Yu.G., burovoy master

Mechanization of all drilling processes is an urgent problem.
Neftianik 5 no. 12:13 D '60. (MIRA 13:12)

1. Neftedobyvodstvennoye upravleniye Tuymazaneft'.
(Oil well drilling)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9

MUKHAMETOVA, G. M.

Mukhametova, G. M. -- "Materials for the Study of Diseases of the Stomach among Workers Engaged in the Extraction and Processing of Petroleum." Bashkir State Med Inst imeni Fifteenth Anniversary of the All-Union Leninist Young Communist League, Ufa, 1955 (Dissertation for the Degree of Candidate of Veterinary Sciences)

SO: Knizhnaya Letopis', No. 24, Moscow, Jun 55, pp 91-104

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9

MUKHAMETOVA, G.M., kand.med.nauk; GABITOVA, R.F.

Clinical aspects and therapy of chronic poisoning with sour crude oil products. Kaz.med. zhur. no.3:99-102 My-Je '63. (MIRA 16:9)

1. Ufimskiy nauchno-issledovatel'skoy institut gigiyeny i professional'nykh zabolevaniy.
(PETROLEUM—TOXICOLOGY)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9

MUKHAMETOVA, G.M., kand. med.nauk, otv. red.; GELLER, L.I., kand. med. nauk, red.; GLYADEYEV, M.M., red.; MIKHAYLETS, G.A., doktor med. nauk, red.; CHEVPETSOV, V.R., red.

[Industrial hygiene and health protection for the workers of the petroleum and petrochemical industries] Gigiena truda i okhrana zdorov'ia rabochikh v neftianoi i neftekhimicheskoi promyshlennosti. Ufa. Vol. 2. 1963. 547 p. (MIRA 18:3)

1. Ufimskiy nauchno-issledovatel'skiy institut gigiyeny i profzabolevaniy. 2. Direktor Ufimskogo nauchno-issledovatel'skogo instituta gigiyeny i profzabolevaniy (for Mukhametova).

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"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9

SULEYMANOV, B.V.; MUKHAMETRAKHIMOVA, R.F.

Treatment of typhoid fever with levomycetin and pentoxyl. Sov. med. 28 no.5:121-123 My '65. (MIRA 18:5)

1. Kafedra infektsionnykh bolezney Bashkirskogo meditsinskogo instituta, Ufa.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9

MUKHAMETSHIN, N.; KURSEVICH, A.

In search of better procurement methods. Prom.koop. 14 no.8: 19 Ag '60. (MIRA 13:8)

1. Zamestitel' upravlyayushchego respublikanskoy kontoroy "Vtorsyr'ye, "Kazan' (for Mukhametshin). 2. Glavnyy bukhgalter toy-zhe kontory (for Kursevich).
(Salvage (Waste, etc.))

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9

MUKHAMETSHIN, N. (Kasan')

Hidden potentialities in the economy of transport expenses.
Sov.torg. 35 no.7:13-16 Jl '62. (MIRA 15:11)
(Shipment of goods)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9

MUKHAMETSHIN, Sh.

At the sources of Devonian petroleum

Moskva Profizdat, 1952. 67 p.

Novatory sotsialisticheskogo proizvodstva (54-18347)

Tn870. M92

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9

MUKHAMETSHIN, Sh.M.

Operation of submersible electric-driven pumps. Neftianik 1 no.4:14-18 Ap '56. (MLRA 9:10)

1. Nachal'nik tret'yego uchastka dobychi pervogo promysla upravleniya Tuymazaneft'.
(Oil well pumps)

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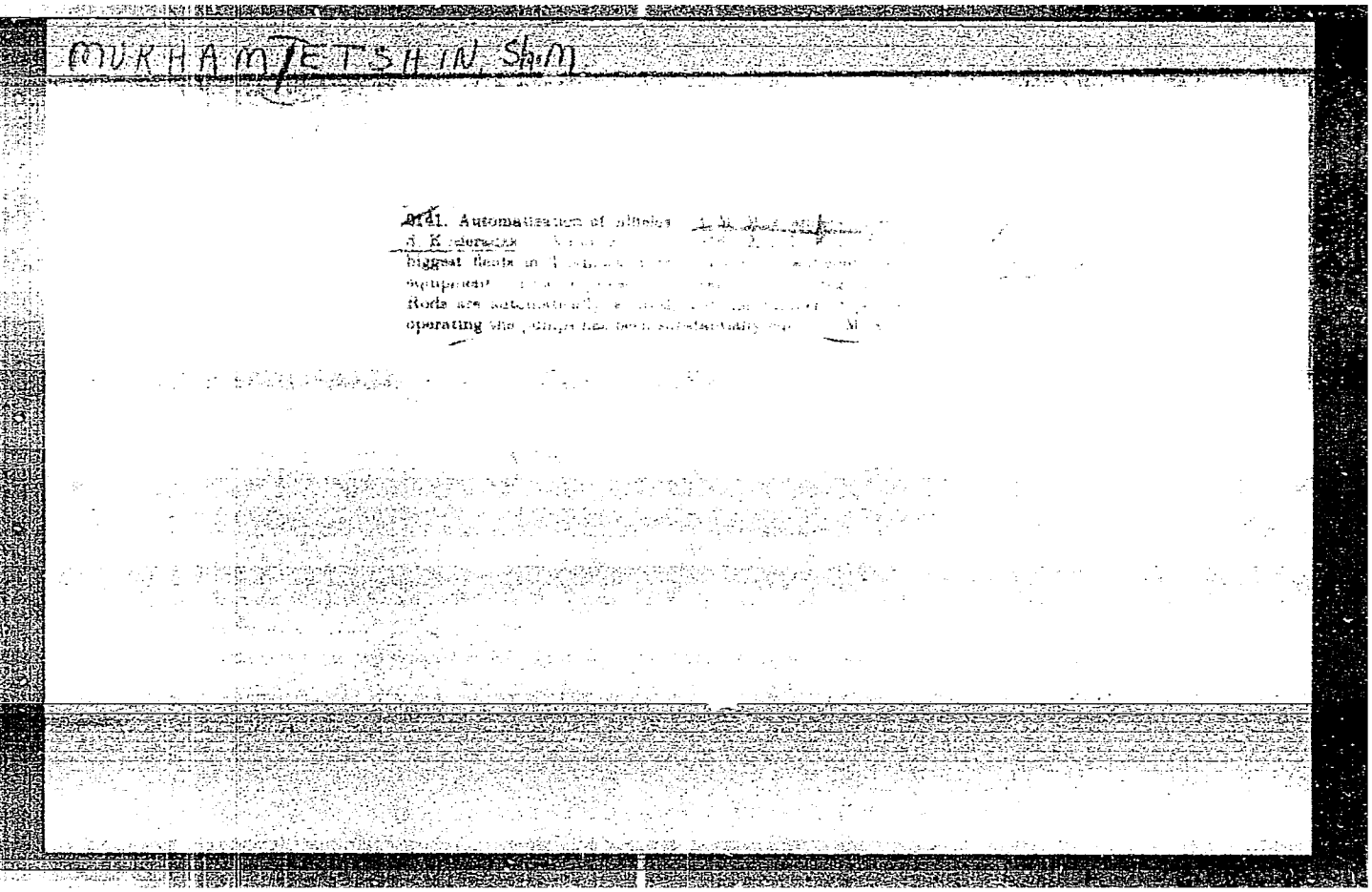

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"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9

GUMEROVA, M.Kh.; ARISTOVA, T.V.; GIL'MANOVA, R.G.; L'VOV, F.V.; BUKCHANTAYEVA, M.S.; MUKHAMETSHINA, M.A.; GAYNULLINA, N.M.; KHRAMOVA, N.P.; KOBRANOVA, I.N., red.; LABUDIN, N.T., red.; IBROGIMOVA, Z.A., tekhn.red.

[Forty years of the Tatar A.S.S.R.; statistical collection] Tatarskaia ASSR za 40 let; statisticheskii sbornik. Kazan', Tatarskoe knizhnoe izd-vo, 1960. 171 p. (MIRA 14:3)

1. Tatar A.S.S.R. Statisticheskoye upravleniye. 2. Nachal'nik Statisticheskogo upravleniya Tatarskoy ASSR (for Kobranova). (Tatar A.S.S.R.--Statistics)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9

CHIGARKIN, A.V.; TRIFONOVA, T.M.; SMIRNOVA, R.Ya.; KAZANSKAYA, Ye.A.; VILESOVA, L.A., MUKHAMETZHANOV, S., kand. geologo-miner. nauk; GLADYSHEVA, Ye.N., kand. geogr. nauk; BAZARBAYEV, K.; KUZNETSOVA, Z.V.; ABDRAKHMANOV, S.; NAZARENKO, I.M., kand. geogr. nauk; YESAULENKO, P.I., kand. sel'khoz. nauk; LAVROVA, I.V., kand. ekonom. nauk; PAL'GOV, N.N., akademik, red.; CHEZGANOV, L., red.; NAGIBIN, P., tekhn. red.

[The Virgin Territory; brief studies on nature, population and economy]TSelinnyi krai; kratkie ocherki o prirode, naselenii i khoziaistve. Alma-Ata, Kazakhskoe gos. izd-vo, 1962. 188 p. (MIRA 15:9)

1. Otdel geografii Akademii nauk Kazakhskoy SSR (for all except Chezganov, Nagibin). 2. Akademiya nauk Kazakhskoy SSR (for Pal'gov).

(Virgin Territory—Economic geography)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9

SKVORTSOV, V.V.; MUKHAMETZYANOV, F.M.

Determining the optimal production distribution in nonuniform strata. Nauch.-tekh. sbor. po dob. nefti no.24:26-34 '64. (MIRA 17:10)

1. Fiziko-tekhnicheskiy institut Kazanskogo filiala AN SSSR.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9

MUKHAMETZYANOV, F.M.; SALEKHOV, G.S.; CHUGUNOV, V.D.

Using linear programming for solving certain problems of the efficient petroleum production. Izv. vys. ucheb. zav.; neft' i gaz 3 no.9:73-80 '60. (MIRA 14:4)

1. Kazanskiy gosudarstvennyy pedagogicheskiy institut, Kazanskiy filial AN SSSR.

(Oil field flooding)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9

CHUGUNOV, V.D.; SALEKHOV, V.G.; MUKHAMETZYANOV, F.M.

Maximum oil recovery from a field in the flow production period. Izv. vys. ucheb. zav.; neft' i gaz 4 no.2:57-64 '61.
(MIRA 15:5)

1. Kazanskiy gosudarstvennyy pedagogicheskiy institut, Kazanskiy filial AN SSSR.

(Oil fields—Production methods)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9

MUKHAMETZYANOV, F.M. (Kazan')

Determining the function of pressure for a nonuniform elliptic stratum. Izv.AN SSSR.Otd.tekh.nauk.Mekh.i mashinostr. no.5:171-173 S-O '61. (MIRA 14:9)

(Oil reservoir engineering)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9

MUKHAMETZYANOV, F.M. (Kazan')

Problem concerning unsteady percolation of a liquid. PMTF no.1:154-157 Ja-F '62. (MIRA 15:4)
(Soil percolation)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9

MUKHAMETZYANOV, F.M.

Distribution of injected water in a reservoir in elasti drive. Izv. Kazan. fil. AN SSSR. Ser. fiz.-mat. i tekh. nauk. no. 15: 44-53 '62. (MIRA 17:7)

1. Fiziko-tekhnicheskiy institut Kazanskogo filiala AN SSSR.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9

MUKHAMETZYANOV, G.Kh.; TARZIMANOV, A.A.; USMANOV, A.G.

Experimental investigation of the heat conduction of normal alcohols. Izv.vys.ucheb.zav.;neft' i gaz no. 1: 73-75 '64. (MIRA 17:7)

1. Kazanskiy khimiko-tekhnologicheskiy institut imeni S.M.Kirova.

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"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9

L 25019-65 FSF(h)/EWT(1) IJP(c)

ACCESSION NR: AT5003210 S/3124/63/001/000/0047/0051

AUTHOR: Mukhametzyanov, I. A.

TITLE: Approximate estimate of the overall behavior of trajectories of perturbed motion of certain nonlinear systems

SOURCE: Moscow. Universitet druzhby narodov. Trudy, v. 1, 1963. Teoreticheskaya mekhanika (Theoretical mechanics), no. 1, 47-51

TOPIC TAGS: perturbed motion, perturbed motion trajectory, nonlinear system, nonlinear system perturbation, Chaplygin theorem

ABSTRACT: The estimate of the overall behavior of trajectories of perturbed motion of certain nonlinear systems has been carried out by studying the characteristics of the solution of linear differential equations. The study is based on the known Chaplygin theorem concerning differential inequalities (S. A. Chaplygin, Novyy metod priblizhennogo integrirovaniya differentsial'nykh uravneniy, GITTL, 1950). Let the differential equation of the perturbed motion be given in the form

$$y_n - f(t, y, y', y'', \ldots, y^{(n-1)}) = 0, \quad (1)$$

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where t is the independent coordinate, y the perturbed coordinate, y'y'', ..., $y^{(n-1)}$ the derivatives of the perturbed coordinate with respect to t, and f(t, 0, 0, ..., 0)≡ 0. Assume that one has found differential equations of the form

$$z_1^{(n)} - F_1(t,z_1,z_1',z_1'',\ldots,z_1^{(n-1)})=0 \quad (2)$$

$$z_2^{(n)} - F_2(t,z_2,z_2', z_2'',\ldots,z_2^{(n-1)})=0 \quad (3)$$

If now: 1) For $t \to \infty$, the arbitrary solution of Eqn. (2) tends to the function $b_1(t)$, while and arbitrary solution of Eqn. (3) tends to $b_2(t)$

where

$$b_1(t) > b_2(t), \quad (3a)$$

2) Over the interval $t \in (0,\infty)$ the substitution of an arbitrary solution of Eqn.(1) for z1 in (2) is less than zero, and for z_2 in (3) is more than zero, i.e.,

$$y^{(n)} - F_1(t,y,y',\ldots,y^{(n-1)}) < 0 \quad (4)$$

$$y^{(n)} - F_2(t,y,y',\ldots,y^{(n-1)}) > 0 \quad (5)$$

3) Over the interval $t \in (0,\infty)$ all solutions of Equations (1), (2), (3) and their derivatives up to order n are finite and continuous, and the functions F_1, F_2, and their partial derivatives with respect to their arguments over that

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ACCESSION NR: AT5003210

interval t are finite; 4) For Equations (2) and (3) the Chaplygin theorem is applicable over the entire interval $t \in (0, \infty)$; then on the basis of that theorem one may state that an arbitrary solution of Eqn. (1) for $t \to \infty$ can be bounded by two functions $\xi_1 + b_1(t)$ and $\xi_2 + b_2(t)$ where ξ_1 and ξ_2 are arbitrarily small positive quantities. Orig. art. has: 20 formulas.

ASSOCIATION: Universitet druzhby narodov imeni Patrisa Lumumby, Moscow (Peoples friendship university)

SUBMITTED: 00 ENCL: 00 SUB CODE: ME, MA

NO REF SOV: 002 OTHER: 000

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"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9

L 25020-65 FSF(h)/EWT(1) IJP(c)

ACCESSION NR: AT5003211 S/3124/63/001/000/0052/0055

B+1

AUTHOR: Mukhametzyanov, I. A.

TITLE: The establishment of a set of differential equations describing stable motions according to a given program

SOURCE: Moscow. Universitet druzhby narodov. Trudy, v. 1, 1963. Teroreticheskaya mekhanika (Theoretical mechanics), no. 1, 52-55

TOPIC TAGS: stable motion, programmed motion, differential equations, motion equation

ABSTRACT: N. P. Yerugin previously described (PMM, 1952, vol. XVI, no. 6) the general structure of the totality of differential equations corresponding to a given integral curve. In the present article, the author establishes the set of systems of differential equations describing stable motion when 1) a trajectory is given; and 2) the law of variation of coordinates is given. Orig. art. has: 18 formulas.

ASSOCIATION: Universitet druzhby narodov imeni Patrisa Lumumby, Moscow (Peoples' friendship university)

Card 1/2

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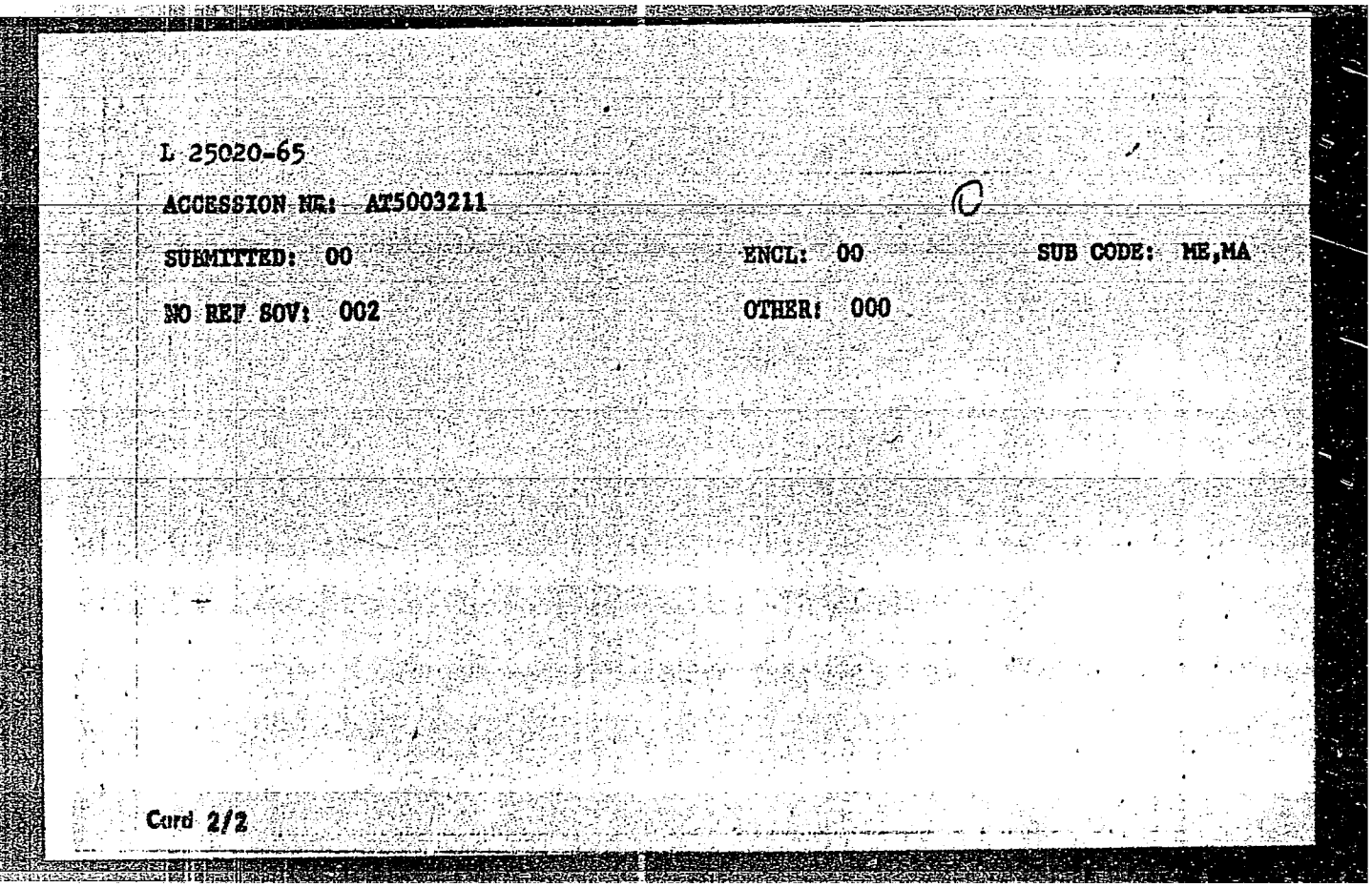

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ACCESSION NR: AT5003211

SUBMITTED: 00 ENCL: 00 SUB CODE: ME,MA

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"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9

L 11127-66 EWT(d)/EWT(l)/EWP(m)/ES(v)-3/EWA(d) IJP(c) GW

ACC NR: AT5028801 SOURCE CODE: UR/3124/64/005/000/0010/0029

AUTHOR: Mukhametzyanov, I. A. 38

ORG: People's Friendship University, Moscow (Universitet druzhby narodov) B+1

TITLE: Sufficient conditions for boundedness and stability of solutions of ordinary differential equations

SOURCE: Moscow. Universitet druzhby narodov. Trudy, v. 5, 1964. Teoreticheskaya mekhanika (Theoretical mechanics), no. 2, 10-29

TOPIC TAGS: differential equation, stability

ABSTRACT: The author treats a system of differential equations of the form

$$\dot{x}_s = \sum_{i=1}^{n} p_{si}(t)\, x_i + X_s^{(2)}(x_1, x_2, \ldots, x_n, t) + \Phi_s(x_1, x_2, \ldots, x_n, t) + F_s(t) \quad (s = 1, 2, \ldots, n). \qquad (1)$$

where $x_s = \frac{dx_s}{dt}$; x_s are the system coordinates, $p_{si}(t)$ are functions bounded and continuous in the time interval $[t_0, T]$; $x_s^{(2)}$ are terms of the series expansion in powers of x_s higher than first order with continuous bounded coefficients, Φ_s are functions characterizing constantly acting perturbations bounded in modulus and permitting conditions of existence and uniqueness of (1), and F_s are given bounded

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functions also having this latter property. The author gives estimates for solution of such equations and conditions determining the time interval under which such solutions exist. He applies his method to proofs of results of G. N. Duboshin (K voprosu ob ustoychivosti dvizheniya pri postoyanno deystvuyushchikh vozmushcheniyakh, Trudy Astronomicheskogo instituta im. Shternberga, t. 14, 1940) and N. G. Chetayev (Ustoychivost' dvizheniya, GITTL, 1955). Orig. art. has: 65 formulas.

SUB CODE: 12/ SUBM DATE: none/ ORIG REF: 007

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"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9

L 11129-66 EWT(d)/EWT(1)/EWP(m)/ES(v)-3/EEC(k)-2/EWA(d)/FCS(k)/EWA(c)/EWA(1)
ACC NR: AT5028803 GW/BC SOURCE CODE: UR/3124/64/005/000/0070/0082

AUTHOR: Mukhametzyanov, I. A.

ORG: People's Friendship University, Moscow (Universitet druzhby narodov)

TITLE: Problems of stability of motion in setting up a law for control for objects of programmed regulation

SOURCE: Moscow. Universitet druzhby narodov. Trudy, v. 5, 1964. Teoreticheskaya mekhanika (Theoretical mechanics), no. 2, 70-82

TOPIC TAGS: differential equation, stability

ABSTRACT: The author considers equations

$$\ddot{x} = G(x, y, \dot{x}, \dot{y}, t) + q,$$
$$\ddot{y} = \Phi(x, y, \dot{x}, \dot{y}, t) + f; \quad (1)$$

of motion of an object of control where G and Φ are natural accelerations occurring for the given object, q and f are accelerations from the controlling force. A study is made of the problem of determining q and f so that (1) yields motion on the trajectory

$$y = \gamma(x) \quad (2)$$

and guaranteeing stability of this trajectory. Methods are presented for estimating the deviation from the given program as a result of error in defining the flowing

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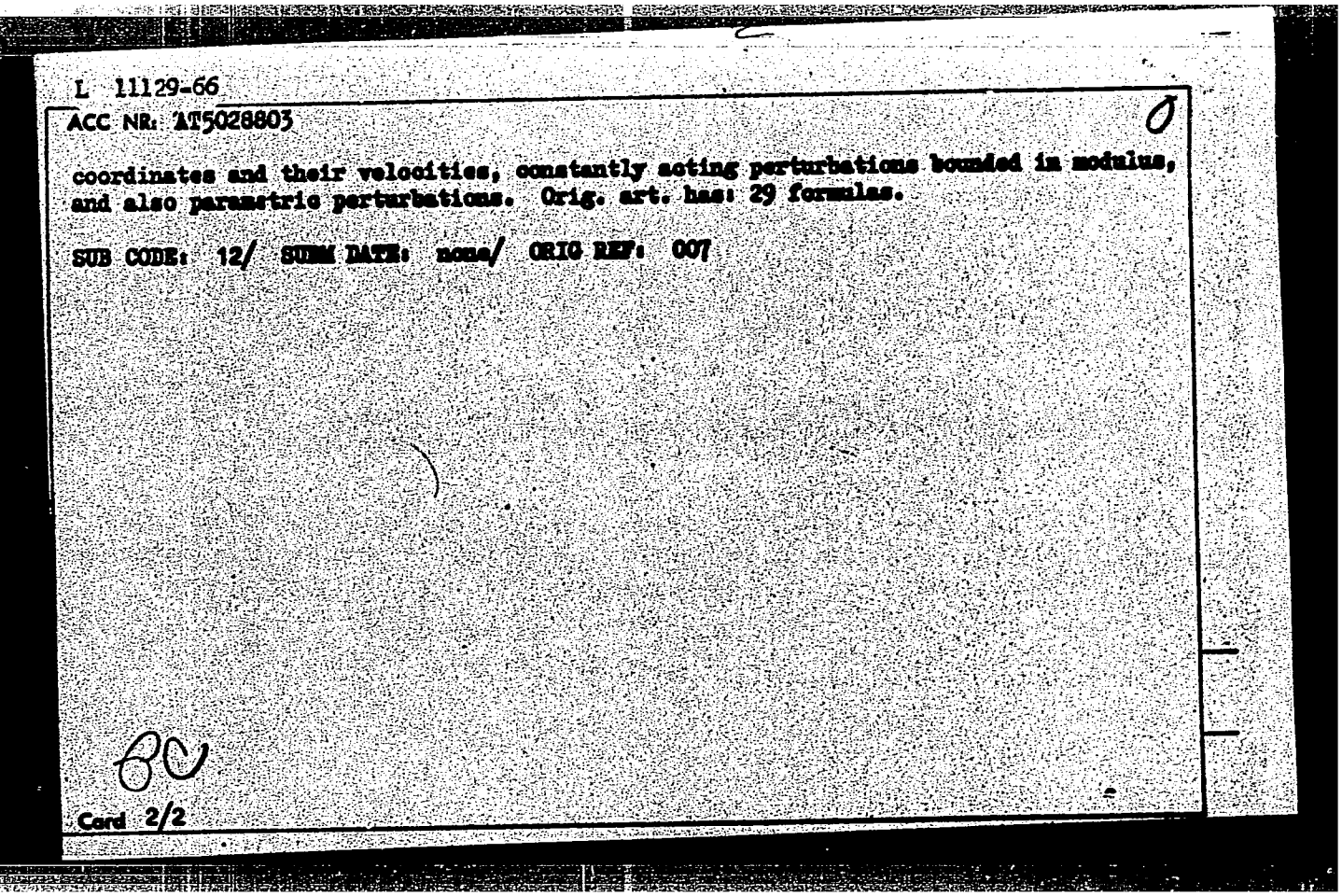

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ACC NR: AT5028803

coordinates and their velocities, constantly acting perturbations bounded in modulus, and also parametric perturbations. Orig. art. has: 29 formulas.

SUB CODE: 12/ SUBM DATE: none/ ORIG REF: 007

Card 2/2

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"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9

L 11126-66 EWT(1)/EWP(m)/FS(v)-3/EWA(d)/FCS(k)/EWA(1) GW

ACC NR: AT5028809 44 55 SOURCE CODE: UR/3124/64/005/000/0161/0195

AUTHOR: Mukhametzyanov, I. A. 44 55 42 B+1

ORG: People's Friendship University, Moscow (Universitet druzhby narodov) 44 55

TITLE: On the stability of a guided body motion in a central field

SOURCE: Moscow. Universitet druzhby narodov. Trudy, v. 5, 1964. Teoreticheskaya mekhanika (Theoretical mechanics), no. 2, 161-195

TOPIC TAGS: stability criterion, particle trajectory, central force field, circular orbit, guided trajectory

ABSTRACT: The stability of the programmed motion of a solid body in a single attractive force field was studied. The governing equations for the trajectory of the body are given in polar coordinate 12,44

$$m(\ddot{r} - r\cdot\dot{\theta}^2) = -\frac{\mu\cdot M_0\cdot m}{r^2} + Z,$$

$$m\cdot\frac{d(r^2\cdot\dot{\theta})}{r\cdot dt} = H.$$

The programmed motion is represented by $r = r_0(t)$, $\theta = \theta_0(t)$, and the necessary values of the control forces to allow the programming--by $Z = Z_0(t)$, $H = H_0(t)$. Small

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perturbations are applied to the above quantities, and, under the assumption that the body is guided by linear relations, the following set of perturbation equations is obtained

$$\dot{x}_1 = x_2$$
$$\dot{x}_2 = x_4$$
$$\dot{x}_3 = a_{31}\cdot x_1 + a_{32}\cdot x_2 + a_{33}\cdot x_3 + a_{34}\cdot x_4 + r_0 x_4^2 + 2\dot{\theta}_0\cdot x_3\cdot x_4 + x_1\cdot x_4^2 - \frac{k_2(2r_0\cdot x_1 + x_1^2)}{r_0^2\cdot(r_0+x_1)^2} + Q_1 + F_1$$
$$\dot{x}_4 = a_{41}\cdot x_1 + a_{42}\cdot x_2 + a_{43}\cdot x_3 + a_{44}\cdot x_4 + \frac{2}{r_0}\cdot x_3\cdot x_4 + \left[\frac{-2m'r_0\dot{\theta}_0 + H_0 + \Delta H}{m} - 2\cdot(r_0\cdot x_4 + \dot{\theta}_0\cdot x_3 + x_3\cdot x_4)\right]\times$$
$$\times\frac{-x_1}{r_0(r_0+x_1)} + Q_2 + F_2 .$$

To evaluate these equations of motion, the various domains of existence of the quantities M and x_0 are investigated, where M is a positive number determined from

$$M > |r_0|\cdot|\bar{x}_3|^2 + 2|\dot{\theta}_0|\cdot|\bar{x}_3|\cdot|\bar{x}_4| + |\bar{x}_4|\cdot|\bar{x}_3|^2 + \frac{k_2\cdot(2|r_0|\cdot|\bar{x}_1| + |\bar{x}_1|^2)}{r_0^2\cdot(|r_0| - |\bar{x}_1|)^2} + |Q_1| + |F_1| + |\Delta a_{31}|\cdot|\bar{x}_3| + |\Delta a_{34}|\cdot|\bar{x}_4|$$

The case is also analyzed where guidance is nonlinear and is represented by the set

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"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9

L 11126-66
ACC NR: AT5028809

$$\frac{\Delta Z}{m} = U_1(\xi_1),\ \xi_1 = B_1\Delta r + B_2\cdot\Delta\theta + B_3\cdot\Delta\dot{r} + B_4\cdot\Delta\dot{\theta} + Q_1,$$

$$\frac{\Delta H}{mr_0} = U_2(\xi_2),\ \xi_2 = A_1\Delta r + A_2\cdot\Delta\theta + A_3\cdot\Delta\dot{r} + A_4\cdot\Delta\dot{\theta} + Q_2,$$

$$\left(\frac{\partial U_1(\xi_1)}{\partial \xi_1}\right)_{\xi_1=0} = \left(\frac{\partial U_2(\xi_2)}{\partial \xi_2}\right)_{\xi_2=0} = 0.$$

As a special example, M is assumed to be the mass of the earth and the following initial conditions are assumed: r_0 = 6700 km, $\dot{\theta}_0 = 1.15 \times 10^{-3}$ rad/sec, $\dot{r}_0 = 0$, and $\theta_0 = 0$. The various perturbation functions derived above (e.g.,

$$|x_1| = f_1(x_0, t) + M\cdot\psi_1(t),$$

$$f_1(x_0, t) = x_0\cdot\left(|R_{11}(t)| + \frac{|R_{12}(t)|}{n_2} + \frac{|R_{13}(t)|}{n_3} + \frac{|R_{14}(t)|}{n_4}\right) = x_0\cdot R_1(t),$$

$$\psi_1(t) = \int_0^t \left(|R_{12}(t)| + \frac{|R_{14}(t)|}{R_0}\right)\cdot dt$$

are evaluated graphically, and the analysis is restricted to the case of a circular orbit with constant angular speeds. Finally, numerical results are obtained with variable magnitudes of $\dot{\theta}_0$ and r_0 in the presence of perturbations. Orig. art. has: 69 equations and 25 figures.

SUB CODE: 22/ SUBM DATE: none/ ORIG REF: 004

Card 3/3

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9

L 10527-66 EWT(d)/EWP(v)/EWP(k)/EWP(h)/EWP(l)

ACC NR: AP6003466 SOURCE CODE: UR/0103/65/026/002/0350/0358

AUTHOR: Mukhametsyanov, I. A. (Moscow) 46 B

ORG: none

TITLE: Evaluation of maximal deviations of the coordinates of nonlinear perturbed automatic control systems

SOURCE: Avtomatika i telemekhanika, v. 26, no. 2, 1965, 350-358

TOPIC TAGS: automatic control system, automatic control theory, perturbation, motion equation, nonlinear control system, coordinate

ABSTRACT: In most cases, automatic control systems are subjected to constant perturbing actions. In many cases, these perturbances cannot be precisely described mathematically. Limitations are therefore simply placed on the modulus of these perturbances, or a class of functions is indicated which describes the action of the perturbances. Invariance conditions are placed on the solutions of the system to exclude the influence of the perturbances. However, any limitations placed on the operation of the system in the form of an equation cannot be ideally realized, since the parameters of the system can have various values, depending on the action of internal or external factors. This article describes a method of evaluation of the maximal deviations of coordinates of nonlinear automatic control systems when subjected to the influence of initial, constant-action and parametric perturbances. Orig. art. has: 48 formulas. [JPRS]

SUB CODE: 12, 13 / SUBM DATE: 09Jun64 / ORIG REF: 003

Card 1/1 Ref

UDC: 62-501.3

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9

L 17954-65 EWT(m)/EPF(c)/EWP(j) Pc-4/Pr-4 RM
ACCESSION NR: AP5002569 S/0079/64/034/007/2471/2472

AUTHOR: Pudovik, A. N.; Fayzullin, E. M.; Mukhametzyanova, E. Kh.

TITLE: Reactions of diglycide ether with dialkylphosphorus acid chlorides

SOURCE: Zhurnal obshchey khimii, v. 34, no. 7, 1964, 2471-2472

TOPIC TAGS: ether, phosphorus acid, chloride, ester, sulfur

Abstract: In the reaction of diglycide ether with chlorides of phosphorus acids, the oxide ring opens on the side of the primary carbon atom, forming beta-chloro-beta'-glycidlisopropyldialkyl esters of phosphorous acid. Sulfur was added to one of the products -- beta-chloro-beta'-glycidyliso-propyldiethyl ester of phosphorous acid, producing the beta-chloro-beta' -glycidylisopropyldiethyl ester of thipphosphoric acid. In the reaction of diglycide ether with two moles of the chloride of diethylphosphorous acid, addition occurred at both oxide rings, forming tetraethyl-alpha, alpha'-dichloromethyldiethylene glycol diphosphate. Orig. art. has 2 formulas and 1 table.

Card 1/2

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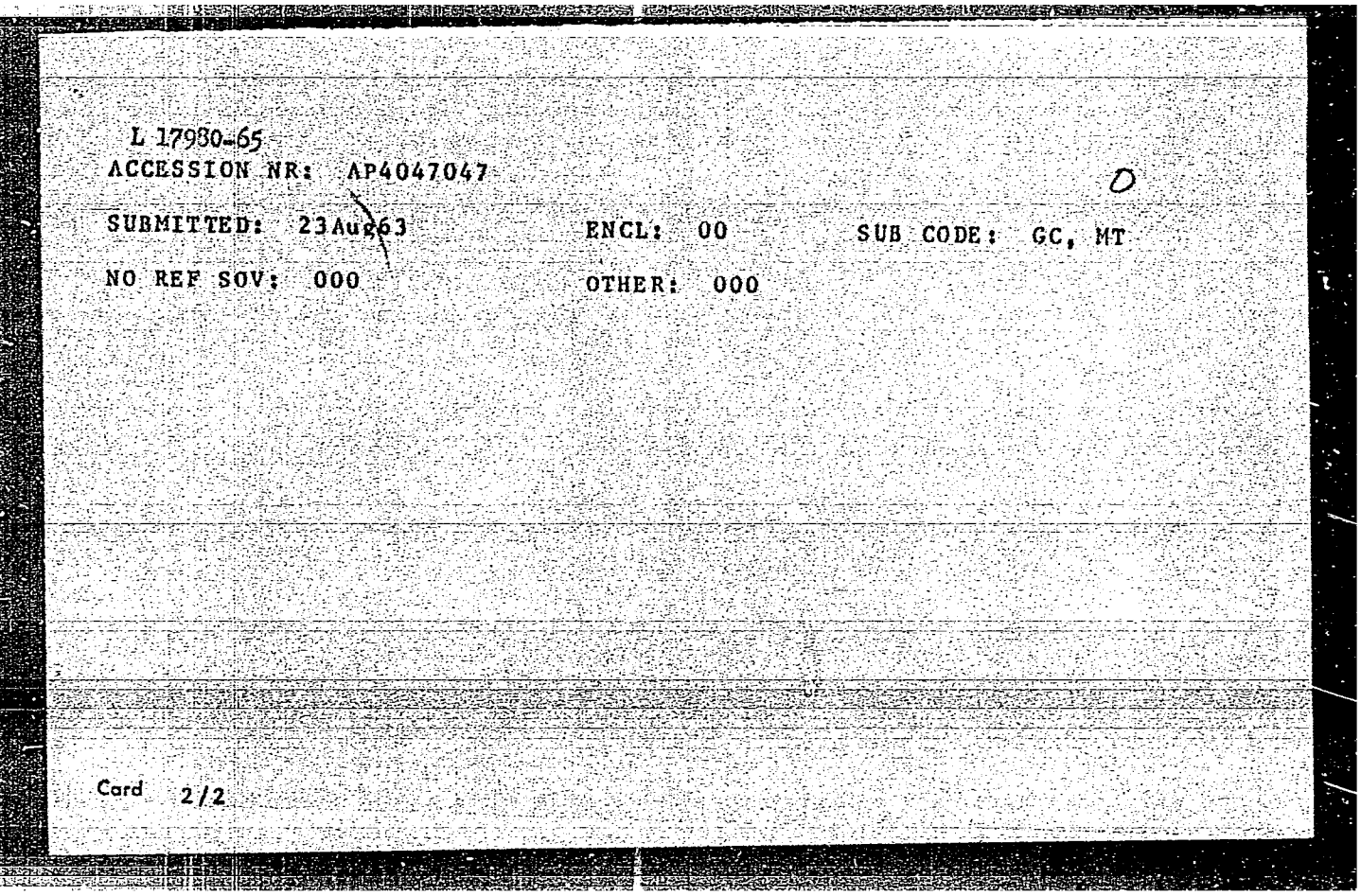
"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9



L 17980-65
ACCESSION NR: AP4047047 O

SUBMITTED: 23Aug63 ENCL: 00 SUB CODE: GC, MT

NO REF SOV: 000 OTHER: 000

Card 2/2

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9

L 36324-66 EWT(1)/EWT(m)/T/EWP(t)/ETI IJP(c) AT/JD/JG

ACC NR: AP6015794 SOURCE CODE: UR/0048/66/030/005/0892/0895

AUTHOR: Mukhammadiyev, E. S.; Rakhimov, R. R. 65

ORG: none

TITLE: Secondary electron emission from the (111), (100), and (110) faces of a tungsten single crystal under argon ion bombardment /Report, Twelfth All-Union Conference on the Physical Bases of Cathode Electronics held in Leningrad 22-26 October 1965/

SOURCE: AN SSSR. Izvestiya. Seriya fizicheskaya, v. 30, no. 5, 1966, 892-895

TOPIC TAGS: tungsten, single crystal, secondary eleecton emission, ion bombardment, argon

ABSTRACT: The authors have measured the secondary electron emission coefficients of the (100), (110), and (111) faces of tungsten single crystals under bombardment with 0.6 to 9.0 keV singly and doubly charged argon ions. The ions were produced in a hot cathode electron impact source. The ion beam was freed from neutral atoms and, after passing through a 60° magnetic analyzer, it was incident normally onto the 0.6 x 6 x 10 mm target. Three targets, one cut parallel to each of the investigated faces, were so mounted in the chamber that the desired target could be brought into position with the aid of a magnet. Before the measurements the targets were subjected to prolonged heating above 2200° K. The residual gas pressure in the target chamber was about

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L 36324-66

ACC NR: AP6015794

3×10^{-7} mm Hg. In all cases (i.e., for both singly and doubly charged ions and all three crystal faces) the secondary emission coefficient γ increased linearly with the ion energy E. The slope $d\gamma/dE$ was independent of the ion charge but was different for the different crystal faces. γ was greater for doubly charged ions than for singly charged ones. In the kinetic emission range (E 1 keV) the secondary emission anisotropy was marke, γ being greatest for the (110) face and least for the (111) face. In the potential emission range the picture was less clear, and more precise low energy measurements are to be desired. The present data suggest, however, that the potential emission coefficient is greatest for the face with the lowest work function. The kinetic emission coefficients were found to be proportional (within 5 %) to the packing density of the corresponding faces. Orig. art. has: 3 figures and 1 table.

SUB CODE: 20/ SUBM DATE: 00/ ORIG REF: 002/ OTH REF: 002

Card 2/2

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9

ZOBOV, Ye.V.; LYALIKOV, Yu.S.; MUKHAMMEDNAZAROVA, O.M.

Amperometric titration of aldehydes and ketones by 2,4-dinitrophenylhydrazine. Izv.AN Turk.SSR no.4:45-50 '59.
(MIRA 13:8)

1. Turkmenskiy nauchno-issledovatel'skiy universitet im. A.M. Gor'kogo.

(Hydrazine) (Conductometric analysis)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9

Mukhammedov, Kh. U.

2

USSR

Industrial production of sodium carboxymethylcellulose. Kh. U. Mukhammedov. ~~Dokl. Akad. Nauk Uzbek. S.S.R. 1954, No. 12, 29-30~~; *Referat. Zhur., Khim.* 1954, No. 29880.—A new and cheaper method for producing carboxymethylcellulose is outlined. Wood pulp is soaked in 18–20% NaOH. The alk. cellulose is pressed until its wt. is 2.7–2.8 times that of air-dry cellulose. It is then ground at 35–40° for 1.5 hrs. and to it is added a calcd. wt. of solid NaOH. The mass is then ground for another 1.5 hrs., cooled to 18–20°, and treated with cryst. $ClCH_2COOH$; after 1 hr. the cooling is stopped. When the exothermic reaction has reached 60–80°, the mass is transferred to preheated drums in which the reaction is completed after 4–6 hrs. Carboxymethylcellulose is sol. in H_2O; its ester no. is 80–85; ester contents are 30–32%; the viscosity of a 2% aq. soln. is 3–9 centipoises.

M. Hosch

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9

MUKHAMMEDOV, Kh.U.

The use of "KMTS" at plants of the General Administration of Synthetic Fibers and of the silk industry. Tekst.prom.15 no.10:59 O'55. (MLRA 8:12)

1. Glavnyy inzhener zavoda Glavnogo upravleniya iskusstvennogo volokna

(Sizing (Textiles))

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"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9

L 18956-63 EPR/EWP(j)/EPF(c)/EWT(m)/BDS/ES(s)-2 AFFTC/ASD/SSD Ps-4/Pc-4/Pr-4/Pt-4 RM/WW/MAY

ACCESSION NR: AP3006542 S/0191/63/000/009/0052/0053

AUTHORS: Oster-Volkov, N. N.; Mukharmedov, Kh. U.; Zhuravleva, V. V. 84

TITLE: Epoxy-furan resins and some of their properties

SOURCE: Plasticheskiye massy*, no. 9, 1963, 52-53

TOPIC TAGS: epoxy resin, acetone, benzene, epoxy-furan resin, fiberglass

ABSTRACT: New epoxy-furan resins, designated as 41-FAED were prepared by copolymerizing varying proportions of furfural-acetone monomer FA with epoxy resin ED-6. The resins are characterized by high temperature stability, high insolubility in acetone, benzene, caustic and orthophosphoric acids, and greater porosity and brittleness than epoxy-resins. The new resin was as good as epoxy for bonding aluminum; it was used in preparing fiberglass for which physical-mechanical data is tabulated. "M. M. Yel'tsova took part in the experimental part of the work." Orig. art. has: 2 tables.

1/2

Card

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"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9

ACCESSION NR: AP4039952 S/0191/64/000/006/0060/0061

AUTHOR: Oster-Volkov, N. N.; Mukhammedov, Kh. U.; Khorol'skaya, I. N.

TITLE: Combining furfural-acetone monomer with phenol-formaldehyde resin

SOURCE: Plasticheskiye massy*, no. 6, 1964, 60-61

TOPIC TAGS: modified phenol formaldehyde resin, phenol formaldehyde containing resin, furfural acetone containing resin, curing, hexmethylenetetramine, resin stability, alkali resistance, dielectric property, molded resin, electrical insulation, mechanical strength

ABSTRACT: A polymer was obtained by combing a phenol-formaldehyde resin (FF-4) with a furfural-acetone monomer in a 1:1 ratio, and the product properties, especially dielectric properties and electrical resistance, were investigated. The mixing was carried out at 40-50C for 2 hours, then at 60C at 300-350 mm Hg for 2-1/2 hours. The product 41-FAFF-11 was obtained in 85-87% yield. The product can be cured with 50% hexamethylenetetramine on prolonged heating at 160-170C or with acid catalysts at room temperature in 100-120 hours. The cured resin is stable in dilute acids (except 20% HNO_3), in alkali, oil, benzene, gasoline,

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ACCESSION NR: AP4039952

kerosine, alcohol and water; it decomposed in concentrated H_2SO_4 and HNO_3. The cured 41-FAFF-11 resin is significantly more alkali resistant than phenol-formaldehyde resin and has good dielectric properties. Molded compositions of 41-FAFF-11 were prepared with graphite, asbestos and glass fiber fillers (molding temperatures of 180-185, 210-220 and 180-200C and pressures of 600-700, 600-700 and 100-250 kgs/cm^2, respectively). These materials have higher strengths and better electrical insulating properties than phenol-formaldehyde compositions. "N. K. Petropol'skaya and E. Yu Mirzayev took part in the experimental part of the work." Orig. art. has: 2 tables, 2 figures.

ASSOCIATION: None

SUBMITTED: 00 ENCL: 00

SUB CODE: MT NO REF SOV: 003 OTHER: 000

Card 2/2

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9

OSTER-VOLKOV, N.N.; MUKHAMMEDOV, Kh.U.; KHOROL'SKAYA, I.N.; Prinimali uchastiye: PETROPOL'SKAYA, N.K.; MIRZAYEV, E.Yu.

Combining furfuroleacetone monomers and phenol-formaldehyde resins. Plast.massy no.6:60-61 '64. (MIRA 18:4)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9

1. MUKHAMMEDOV, MUZAFAR
2. USSR (600)
4. Sports
7. Far in the South. Mol.kolkh. 19 no. 10, 1952.

9. **Monthly List of Russian Accessions**, Library of Congress, January 1953. Unclassified.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9

MUKHAMMEDZHAN, Kh. Kh.

Muhammedžan, H. H. On the theory of infinite groups with an ascending central series.
SSSR [illegible] 68, 269–272 (1949). (Russian)

A "special" group is one in which (i) the minimal condition for subgroups holds and (ii) every proper subgroup is different from its normalizer. S. Černikov [Mat. Sbornik [illegible] 411 [illegible] upper central series has only finite factors in the proper note the author proves that nonspecial groups with this property do not exist. Theorem: if the p-group $\mathfrak{G}$ has an ascending central series, and if all factors of its upper central series are finite, then $\mathfrak{G}$ is a special group. The idea of the proof cannot be indicated briefly. [Misprint: p. 271, line 8 from top, instead of the second $\mathfrak{Z}_0'$ read $\mathfrak{Z}_1'$.]

K. A. Hirsch (Newcastle-upon-Tyne).

Source: Mathematical Reviews, Vol 10, No. 9

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9

MUKHAMMEDZHAN, Kh. Kh

Mukhammedžan, H. H. On groups with an ascending central series. Mat. Sbornik N.S. 28(70), 185–196 (1951). (Russian)

In this review, G is a group with [transfinite] ascending central series (a.c.s.) $\{Z_\alpha\}$: $0=Z_0\leq Z_1=1$, $Z_{\beta'}=G$; i.e. $Z_{\alpha+1}/Z_\alpha$ is the center of G/Z_α. Proofs of the following results are given. If H is a normal subgroup of G, such that $H\cap(Z_{r+1}-Z_r)$ is not empty, then $H\cap(Z_r-Z_s)$ is not empty ($r>s$). In particular, $H\cap(Z_1-Z_0)$ can never be empty. If moreover H is locally normal (every finite set of elements of H lies in a finite and normal subgroup of H) then $H\subset Z_\omega$; here ω is best possible. Let g ($\in G$) be expressible as a product of nth powers for each natural number n. Then g is permutable with every element of finite order in Z_ω [cf. Černikov, Rec. Math. [Mat. Sbornik] N.S. 18(60) 397–422 (1946); these Rev. 8, 311]. If all factors $Z_{\alpha+1}/Z_\alpha$ are finite, then G is special, i.e., G satisfies the descending chain condition (d.c.c.) for subgroups. More generally, if all factors $Z_{\alpha+1}/Z_\alpha$ satisfy d.c.c., then G/Z_1 has a.c.s., all factors of which are finite; in this case the length of the a.c.s. of G is not ω and is less than $\omega 2$. Conversely, a special group has a.c.s., all factors of which satisfy d.c.c. See the author's preliminary announcement [Doklady Akad. Nauk SSSR (N.S.) 65, 269–272 (1949); these Rev. 10, 590].

J. L. Brenner (Pullman, Wash.).

Source: Mathematical Reviews, Vol 12 No. 8

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9"

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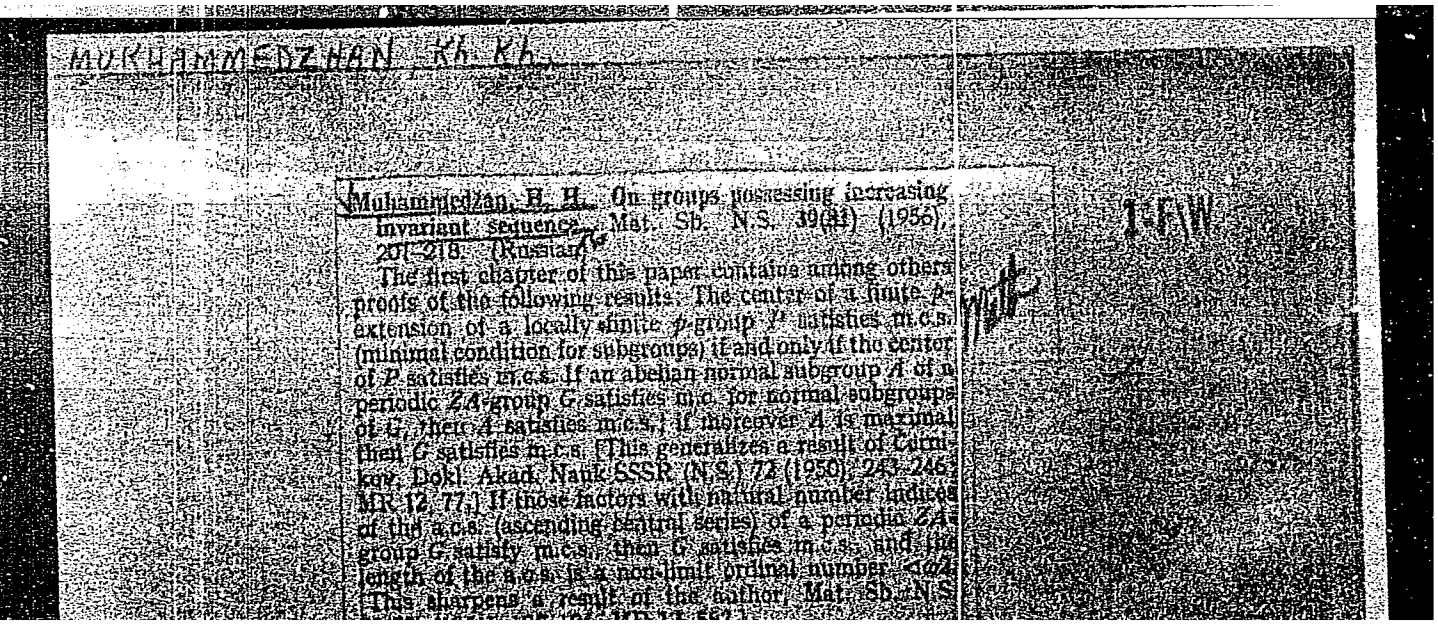

MUKHAMMEDZHAN, Kh. Kh.

Muhammedžan, H. H. On groups possessing increasing invariant sequence. Mat. Sb. N.S. 39(81) (1956), 207–218. (Russian)

The first chapter of this paper contains among others proofs of the following results. The center of a finite p-extension of a locally finite p-group Y satisfies m.c.s. (minimal condition for subgroups) if and only if the center of P satisfies m.c.s. If an abelian normal subgroup A of a periodic ZA-group G satisfies m.c. for normal subgroups of G, then A satisfies m.c.s.; if moreover A is maximal then G satisfies m.c.s. [This generalizes a result of Čarin, Dokl. Akad. Nauk SSSR (N.S.) 72 (1950), 243–246; MR 12, 77.] If those factors with natural number indices of the a.c.s. (ascending central series) of a periodic ZA-group G satisfy m.c.s., then G satisfies m.c.s. and the length of the a.c.s. is a non-limit ordinal number $<\omega 4$. This sharpens a result of the author, Mat. Sb. N.S.

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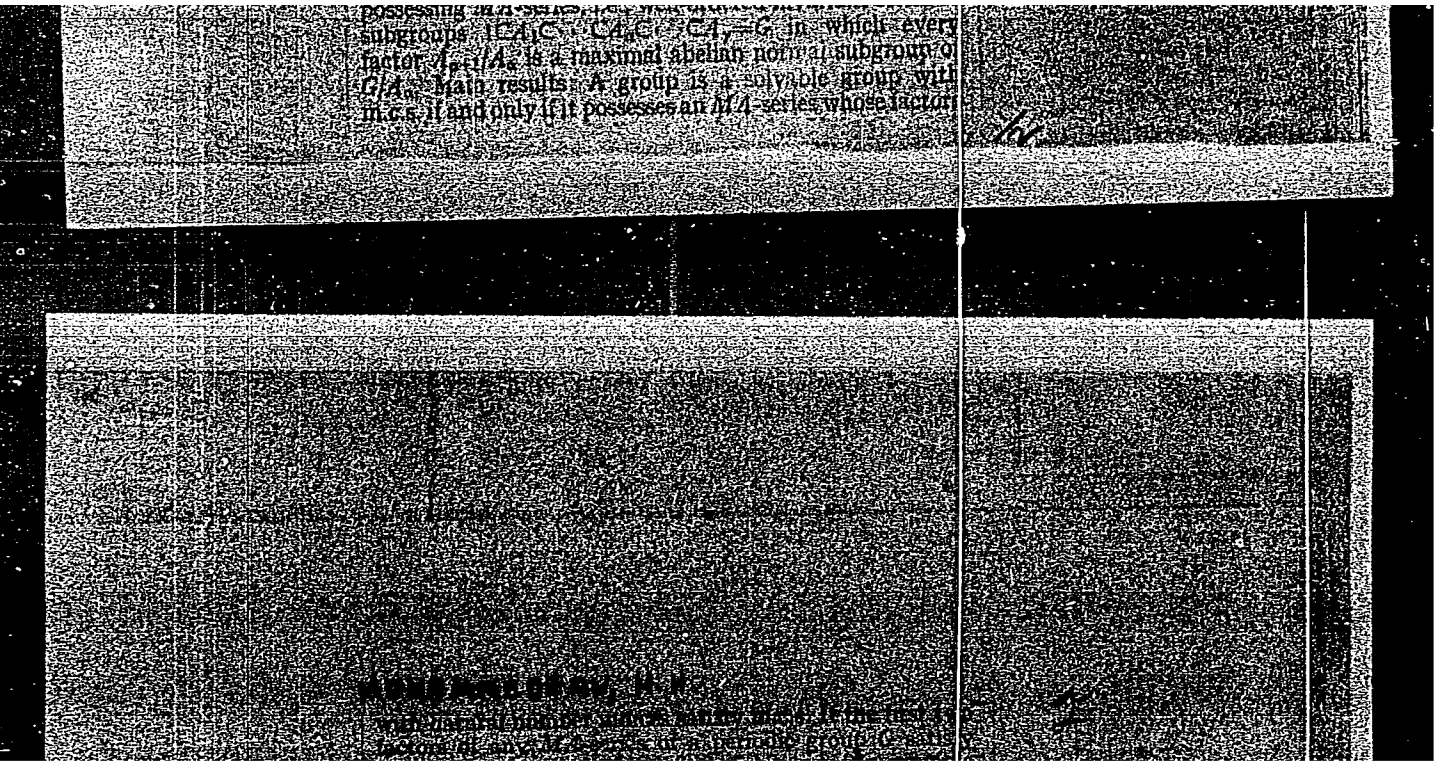

possessing an A-series, i.e. a maximal chain $G=A_1 \supset A_2 \supset \cdots \supset A_{n-1} \supset A_n = E$ of subgroups $G=A_1 \supset A_2 \supset \cdots \supset A_{n-1} \supset A_n = E$ in which every factor A_{i+1}/A_{i+2} is a maximal abelian normal subgroup of G/A_{i+2}. Main results: A group is A-solvable group with m.c.s. if and only if it possesses an A-series whose factor

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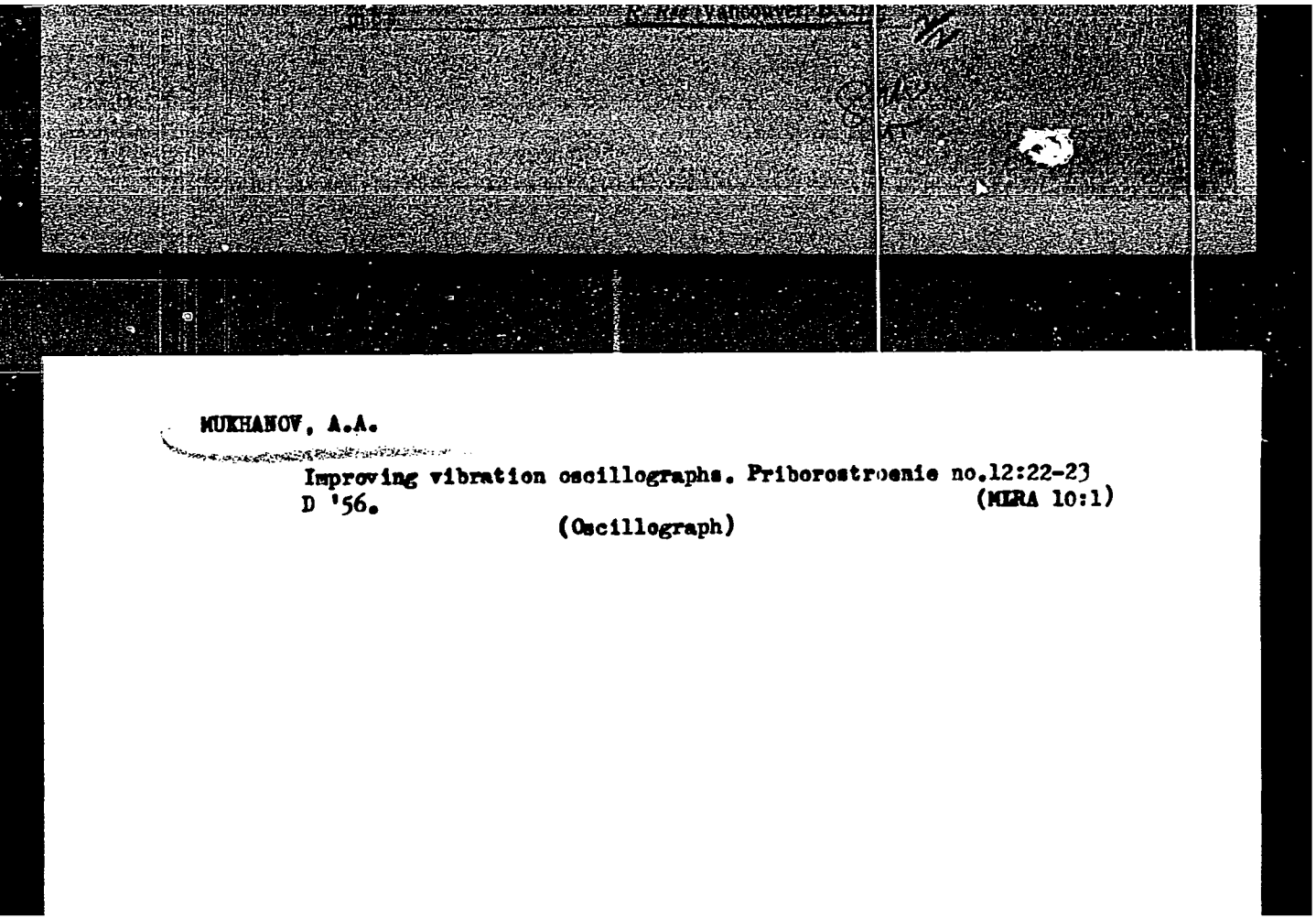

MUKHANOV, A.A.

Improving vibration oscillographs. Priborostroenie no.12:22-23 D '56. (MLRA 10:1)
(Oscillograph)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9

MUKHANOV, A.A., inzh.

Rubber coupling for connecting flexible cables. Bezop. truda v prom. 4 no.9:30-31 S '60. (MIRA 13:9)
(Cables)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9

MUKHANOV, A.A.

Device for the automatic feed of strip metal into press dies. Kuz.-shtam.proizv. 3 no.7:26-29 Jl '61. (MIRA 14:6)
(Steel-metalwork)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9

MUKHANOV, A. I.

MUKHANOV, A. I.: "A forensic-medical evaluation of hemorrha e in the pancreas." Kiev Order of Labor Red Banner Medical Inst imeni Academician A.A. Bogomolets. Kiev, 1956. (Dissertation for the Degree of Candidate in Medical Sciences).

Source: Knizhnaya letopis' No. 28 1956 Moscow

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9

USSR/General Problems of Pathology - Tumors. Comparative Oncology. Tumors of Man U

Abs Jour : Ref Zhur Biol., No 5, 1959, 22962

Author : Mukhanov, A.I.

Inst : Vinnitskiy Medical Institute

Title : Chorioephithelioma of Uterus, Diagnosed as Ectopic Pregnancy with Fatal Result.

Orig Pub : Sb. nauchn. statey. Vinnits, med. in-t, 1957, vyp. 3, 202-206

Abstract : No abstract.

Card 1/1

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9

MUKHANOV, B.V

MUKHANOV, B.V., kandidat biologicheskikh nauk, uchitel' biologii; ABEUYEV, B.O.

Repetitive test lessons in zoology. Biol. v shkole no.5:43-45 S-O '57. (MLRA 10:9)

1. Srednyaya shkola No.54, Alma-Ata (for Mukhanov). 2. Alma-Atinskiy gosudarstvennyy pedagogicheskiy institut (for Abeyev).
(Alma-Ata--Zoology--Study and teaching)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9

MUKHANOV, F.

Poor quality of work is intolerable. Sel'. stroi. no.12:19 D '62. (MIRA 16:1)

1. Instruktor tresta Orgsovkhozstroy.

(Volgograd Province—Building)

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"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9

L 24671-66 EWT(m)/T WE

ACC NR: AP6015850 SOURCE CODE: UR/0318/65/000/001/0011/0014

AUTHOR: Mukhanov, F. V.

ORG: Novokuybyshev Petroleum Refinery

TITLE: Experience gained from the operation and remodeling of an assembly for purifying dry and wet gas of thermal cracking with a solution of ethanolamine

SOURCE: Neftepererabotka i neftekhimiya, no. 1, 1965, 11-14

TOPIC TAGS: sulfuric acid, hydrogen sulfide, butane, alcohol, fractional distillation

ABSTRACT: In order to obtain additional source materials for the production of sulfuric acid, an assembly for removing hydrogen sulfide from dry and wet gas of thermal cracking with triethanolamine (because of a lack of monoethanolamine) was remodeled at the Novokuybyshev Refinery. Complete diagrams of the original and modified assembly are given, and the routes followed by the gases and triethanolamine are fully described. The performance characteristics of the remodeled assembly and the parts added to the original assembly are listed. The remodeling increased the resources of dry gas and of the propane-propylene fraction for supplying the synthetic alcohol plant with raw material. Furthermore, the corrosion of the plant's gas-fractionating units was reduced, as was the consumption of alkali in the purification involving the removal of sulfur compounds from the butane-butylene fraction. Orig. art. has: 2 figures. [JPRS]

SUB CODE: 11, 07 / SUBM DATE: none

Card 1/1 pb UDC: 665.53.521.6.071.7

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9

MUKHANOV, G.V.

Work practice in reducing the number of agricultural accidents. Trudy Inst.klin. i eksp.khir. AN Kazakh.SSR 3:148-155 '57. (MLRA 10:8)

1. Institut klinicheskoy i eksperimental'noy khirurgii Akademii nauk Kazakhskoy SSR

(KASKELEN DISTRICT--AGRICULTURE--ACCIDENTS)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9

BRYAKIN, Yu.M.; BABASHEV, B.S.; MUKHANOV, G.V.

Experience in the use of a potentiated local anesthetic. Trudy Inst. klin. i eksp. khir. AN Kazakh. SSR 4:68-71 '58. (MIRA 12:4)

1. Institut klinicheskoy i eksperimental'noy khirurgii AN Kazakhskoy SSR.
(LOCAL ANESTHESIA)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9

BALAKIN, Ye.D.; MUKHANOV, G.V.; MURVANIDZE, D.S., red.; KHRAMYKH, N.M., red.; BRODSKIY, V.S., tekhn. red.

[Topics for inventors and efficiency promoters in the shoe industry]Temnik dlia izobretatelei i ratsionalizatorov obuvnoi promyshlennosti. Moskva, Biuro tekhn. informatsii legkoi promyshl., 1959. 95 p. (MIRA 15:11)

1. Russia (1923- U.S.S.R.)Gosudarstvennyy nauchno-tekhnicheskiy komitet.
(Shoe manufacture--Technological innovations)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9

YEZERSKIY, Grigoriy Yevseyevich; MUKHANOV, Grigoriy Vasil'yevich; RAZUMOVSKAYA, Ye.V., red.; BATYREVA, G.G., tekhn. red.

[Manufacture of light footwear and house slippers] Proizvodstvo legkoi i komnatnoi obuvi. Moskva, Rostekhizdat, 1962. 205 p. (MIRA 15:4)

(Shoe manufacture)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9

LEVENKO, Petr Ivanovich; KUDRYA, Sergey Denisovich; MUKHANOV, Grigoriy Vasil'yevich; NOVIKOV, V.S., inzh., retsenzent; KNAKHOVSKAYA, L.M., red.

[Specialization of the enterprises of the leather and shoe industry] Spetsializatsiia predpriiatii kozhevenno-obuvnoi promyshlennosti. Moskva, Izd-vo "Legkaia industriia," 1964. 89 p. (MIRA 17:9)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9

MUKHANOV, I.I., kandidat tekhnicheskikh nauk.

Design of high-speed cast cutters for end mills. Trudy Ural. politekh.inst. no.42:22-29 '55. (MLRA 9:8)
(Cutting tools)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9

69355

SOV/123-59-19-78497

Translation from: Referativnyy zhurnal. Mashinostroyeniye, 1959, Nr 19, p 94 (USSR)

185200 18.1120

AUTHOR: Mukhanov, I.I.

TITLE: On the Conditions for Efficient Use of Cast Tools[14] From High-Speed Steel

PERIODICAL: Tr. Leningr. in-t aviats. priborostr., 1958, Nr 27, pp 25 - 36

ABSTRACT: Conditions were studied, under which the durability of cast tools (T) from high-speed steel exceed the durability of forged ones. The tests were carried out in machining carbon steel and alloyed steel with the aid of cast T (roughing tools and bits of facing cutters). By tests the optimum magnitude of the front and rear angles of tools and cutters were determined. Tests of forged and cast T with optimum angles showed the greater durability of the cast T. The durability of cast T was investigated in machining steel grades of various hardness, and tests were also carried out on dynamic face cutting. The results of the investigations showed: 1) the somewhat smaller ductility of cast T in comparison with forged ones affects the durability of the dynamic cutting process; 2) the

Card 1/2

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"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9

SOV/123-59-15-59517

Translation from: Referativnyy zhurnal. Mashinostroyeniye, 1959, Nr 15, p 91 (USSR)

AUTHOR: Mukhanov, I.I.

TITLE: On the Problem of Selecting a Hard Alloy and the Geometry for Cutting Tools for the Threading of Machine Parts of 2Kh13 Stainless Steel

PERIODICAL: Tr. Leningr. in-t aviats. priborostr., 1958, Nr 27, pp 37 - 45

ABSTRACT: The special problems connected with the machining of stainless steel are considered taking threading as an example. The formula for the calculation of the wear at the rear face of the cutting tool is given as a function of the volume of used up hard alloy. From the curves of the wear of the cutting tool in the course of time it follows that the best alloy for this kind of operation is the T15K6 alloy. 6 figures, 1 table, 6 references.

L.A.D

Card 1/1

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9

MUKHANOV, I.I., inzh.; SAITOV, G.S., inzh.

Using the MIS-11 microscope in measuring the microroughness of screw threads. Mashinostroitel' no.1:43-45 Ja '59.
(MIRA 12:2)

(Screw threads--Testing) (Microscope)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9

L 10907-67 EWT(l)/EWP(e)/EWT(m)/EEC(k)-2/EWP(t)/ETI/EWP(k)/EWA(c)/EWA(m)/T

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9

ACC NR: AP6036887 (A) SOURCE CODE: UR/0122/66/000/011/0052/0053

AUTHOR: Mukhanov, I. I. (Candidate of technical sciences); Golubev, Yu. M. (Engineer)

ORG: none

TITLE: Hardening of steel parts using a sphere vibrating at ultrasonic frequency

SOURCE: Vestnik mashinostroyeniya, no. 11, 1966, 52-53

TOPIC TAGS: metal hardening, ultrasonic frequency, wear resistance

ABSTRACT: The article gives experimental data on the effect of ultrasonic hardening on the wear resistance of steel subjected to oxidizing and pitting wear, and the changes in the mechanical strength of the steel under a static load. The samples were in the form of rings made of Type 45 steel with a diameter of 45 mm and bronze bushings with a contact surface of 100 mm^2. The rate of rotation of the rings was 3.26 meters/sec, and the pressure between the working surfaces was 0.18 kg/mm^2. The samples were previously machined on a lathe. After the surface of the sample had been cut, it was subjected to the action of a sphere vibrating at ultrasonic frequencies (18-25 kilocycles). Before ultrasonic treatment, the height of the surface irregularities corresponded to the 5th class of purity. The roughness of the working surface of the rings after ultrasonic hardening was of the 9-10th class of purity, and of the bronze bushings of the 7th class. The data, shown in graphic form, shows that with an

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ACC NR: AP6036887

increase in the static force above 5 kg, the depth of the hardening increases, but the surface microhardness decreases, leading to a decrease in wear resistance. Orig. art. has: 5 figures and 1 table.

SUB CODE: 11/ SUBM DATE: none

Card 2/2

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9

STAVER, T.; MUKHANOV, I.

All-round and systematic help. Prof.-tekh. obr. 18 no. 3:25-26 Mr '61. (MIRA 14:4)

1. Nachal'nik Permskogo oblstnogo upravleniya professional'no-tekhnicheskogo obrazovaniya (for Staver). 2. Nachal'nik upravleniya kadrov i uchebnykh zavedeniy Permskogo sovnarkhoza (for Mukhanov). (Perm Province—Evening and continuation schools)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9

KUZ'MINA, M.D.; SVERCHKOVA, T.F.; GOLOVLEV, A.V.; MUKHANOV, K.I., kand. ekon.nauk; CHERNYKH, V.M., otv.red.; SUSHKOVA, N., red.; LUKASHEVICH, V., tekhn.red.

[Frontiers of the seven-year plan, 1959-1965] Rubezhi semiletki, 1959-1965. Saratov, Saratovskoe knizhnoe izd-vo, 1960. 168 p. (MIRA 14:4)

(Russia--Economic policy)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9

MUKHANOV, K.K.

MUKHANOV, K. K., Docent Cand. Tech. Sci.

Dissertation: "Practical methods for calculating the junctions of conical shells in the constructions of blast furnaces." 20 Jun 49

Moscow Order of the Labor Red Banner Engineering Construction Inst. imeni V. V. Kuybyshev.

SO Vecheryaya Moskva
Sum 71

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9

MUKHANOV, Konstantin Konstantinovich, kandidat tekhnicheskikh nauk; BALDIN, V.A., kandidat tekhnicheskikh nauk, retsenzent; TUBIN, S.M., kandidat tekhnicheskikh nauk, nauchnyy redaktor; KOTIK, B.A., redaktor izdatel'stva; TOKER, A.M., tekhnicheskiy redaktor

[The planning of steel structural elements] Proektirovanie stal'nykh konstruktsii. Moskva, Gos. izd-vo lit-ry po stroit. i arkhitekture, 1956. 374 p. (MIRA 10:1)
(Steel, Structural)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9

MUKHANOV, K.K., kand. tekhn. nauk; VASIL'YEV, A.A., inzh.; SOKOLOV, B.B., inzh.; SYCHEV, V.I., inzh.

Effectiveness of using aluminum alloys in constructing walls and roofs of industrial buildings. Prom. stroi. 37 no.7:37-40 Jl '59. (MIRA 12:10)

(Aluminum alloys) (Metallurgical plants)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9

KIKIN, A.I., prof.; BELENYA, Ye.I., prof.; STRELETSKIY, N.S., prof., doktor tekhn. nauk; LESSIG, Ye.N., dots.; LUKHANOV, K.K., dots.; DUBINSKIY, G.S., dots.; SHESTAK, G.A., dots.; IGNAT'YEVA, V.S., dots.; KUYBAKOV, V.M., dots.; GENIYEV, A.N., prof.; VEDENIKOV, G.S., dots.; TUBIN, S.M., kand. tekhn. nauk, nauchnyy red.; BEGAK, B.A., red. izd-va; OSENKO, L.M., tekhn. red.

[Metal construction; present state and outlook for future development] Metallicheskie konstruktsii; sostoianie i prespektivy razvitiia. Pod obshchei red. N.S.Streletskogo. Moskva, Gos. izd-vo lit-ry po stroit., arkhit. i stroit. materialam, 1961. 333 p. (MIRA 15:4)

1. Moscow. Moskovskiy inzhenerno-stroitel'nyy institut.
2. Kafedra metallicheskikh konstruktsiy Moskovskogo inzhenerno-stroitel'nogo instituta imeni V.V.Kuybysheva (for all except Tubin, Begak, Osenko).

(Building, Iron and steel)
(Aluminum, Structural)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9

MUKHANOV, Konstantin Konstantinovich, kand. tekhn. nauk;
BALDIN, V.A., retsenzent; TUBIN, S.M., kand. tekhn. nauk, nauchnyy red.; BEGAK, B.A., red.izd-va; [illegible]ERSTNEVA, N.V., tekhn. red.

[Metal structures; fundamentals of design] Metallicheskie konstruktsii; osnovy proektirovaniia. Moskva, Gosstroiizdat, 1963. 404 p. (MIRA 16:7)

1. Chlen-korrespondent Akademii stroitel'stva i arkhitektury SSSR (for Baldin).
(Building, Iron and steel)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9

MILLER, Viktor Yakovlevich, inzh.; KORCHAGIN, Vladimir Aleksandrovich, inzh.; TOLOKONNIKOV, Vladimir Gerasimovich, inzh.; MUKHANOV, K.K., kand. tekhn. nauk, retsenzent; KUZNETSOV, V.V., inzh., retsenzent; ZELYATROV, V.N., inzh., nauchn. red.

[Steel structures in a blast furnace - gas purification complex] Stal'nye konstruktsii kompleksa domennoi pechi i gazoochistki. Moskva, Stroiizdat, 1965. 278 p. (MIRA 18:4)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9

STRELETSKIY, Nikolay Stanislavovich, doktor tekhn. nauk, prof.; BELENYA, Yevgeniy Ivanovich, prof.; VEDENIKOV, Georgiy Stanislavovich, dots.; MUKHANOV, Konstantin Konstantinovich, dots.; LESSIG, Yevgeniy Nikolayevich, dots.; POPOV, S.A., kand. tekhn. nauk, nauchn. red.; LILEYEV, A.F., inzh., nauchn. red.

[Metal elements; a special course] Metallicheskie konstruktsii; spetsial'nyi kurs. Pod red. N.S.Streletskogo. Moskva, Stroiizdat, 1965. 366 p. (MIRA 19:1)

1. Chlen-korrespondent AN SSSR (for Streletskiy).

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9

MUKHANOV, P.Ya.

Introducing automatic looms. Tekst.prom. 15 no.1:26-27 Ja '55.
(MLRA 8:2)

1. Glavnyy inzhener Krasnokholmskogo kombinata.
(Looms)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9

MUKHANOV, P.Ya.

Shedding mechanism with stiff transmission to the heddles. Tekst. prom 16 no.10:40-43 O '56. (MLRA 10:1)

1. Direktor Krasnokholmskogo kombinata.
(Looms)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9

MUKHANOV, P.Ya.

New sizing and detergent products. Tekst.prom. 19 no.8: 76-79 Ag '59. (MIRA 13:1)

1. Glavnyy inzhener Krasnokholmskogo kombinata.
(Textile finishing)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9

LIPSHITS, Naum Veniaminovich, kand.tekhn.nauk; KLEYN, Aleksandr Kazimirovich; RUKHLYA, Ivan Ivanovich; MUKHANOV, P.Ya., retsenzent; NIKITIN, M.N., retsenzent; SOKOLOVA, V.Ye., red.; SHVETSOV, S.V., tekhn.red.

[Overall redesigning of the automatic AT-175-Sh loom; from the work practices of the Klintsy Fine Woolen-Cloth Factory named after the Komintern and of the Bryansk Woolen and Worsted Combine] Kompleksnaia modernizatsiia avtomaticheskikh tkatskikh stankov AT-175-Sh; iz opyta raboty Klintsovskoi tonkosukonnoi fabriki imeni Kominterna i Brianskogo kamvol'nogo kombinata. Moskva, Izd-vo nauchno-tekhn.lit-ry RSFSR, 1961. 85 p. (MIRA 15:2)

(Bryansk Province--Looms)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9

KOL'TSOV, Stepan Kuz'mich; KAPUSTIN, Ivan Il'ich; MUKHANOV, P.Ya., retsenzent; NEBOL'SIN, A.M., retsenzent; DUKHOVNYY, F.N., red.; VINOGRADOVA, G.A., tekhn. red.

[Assembly of units and mechanisms of machinery and automatic machines] Sborka uzlov i mekhanizmov mashin i avtomatov. Moskva, Izd-vo nauchno-tekhn.lit-ry RSFSR, 1961. 377 p. (MIRA 14:12)
(Automation) (Assembly-line methods) (Machine-shop practice)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9

MUKHAMOV, P. Ya., inzh.

Mechanization of the sorting out of grey fabrics at the Krasnokholmskii Kamvol'nyi Combine. Mekh.i avtom. proizv. 15 no.4:29-31 Ap '61. (MIRA 14:5)
(Moscow—Textile industry—Technological innovations)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9

LIPENKOV, Yakov Yakovlevich; MUKHANOV, P.Ya., retsenzent; KHRUSHCHEV, G.G., retsenzent; GORDEYCHIK, G.M., red.; VINOGRADOVA, G.A., tekhn. red.

[General technology of wool] Obshchaia tekhnologiia shersti. Izd.3., perer. i dop. Moskva, Rostekhizdat, 1962. 331 p. (MIRA 15:7)
(Woolen and worsted manufacture)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9

1. MUKHANOV, Ye. ENG

2. USSR (600)

4. Tin Plate

7. Use of centrifuging in tin-plating milk vessels. Mol. prom. 12, no. 12, 1952.

9. Monthly List of Russian Accessions, Library of Congress, March 1953. Unclassified.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9

MUKHANOV, Yu.P., insh.

The VP-300 water heater. Mashinostroenie no.3:105-106 My-Je '63. (MIRA 16:7)

1. Ukrainskiy nauchno-issledovatel'skiy institut sel'skokhozyaystvennogo mashinostroyeniya, Khar'kov.
(Water heaters)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9

SOV/180-59-3-36/43

AUTHORS: Davydova, M.A., Kasatochkin, V.I., Mukhanova, L.N. and Tayts, Ye.M. (Moscow)

TITLE: Mechanical Strength and Polymeric Structure of Thermally Treated Coals

PERIODICAL: Izvestiya Akademii nauk SSSR, Otdeleniye tekhnicheskikh nauk, Metallurgiya i toplivo, 1959, Nr 3, pp 171-175(USSR)

ABSTRACT: Changes in microhardness, resistance to crushing (in a drum containing steel balls), interlattice order and sizes of carbon layers of solid residues obtained on thermal decomposition of various coals in the temperature range 500 to 2340°C were studied. A regular relationship between the course of changes in the mechanical strength and molecular-structural transformations, which take place in the residues on the temperature at which coal was treated, was established (Fig 1, 2, 3 and 4). The microhardness depends on the total number of spatial bonds of the polymeric substance of the solid carbonaceous residue. The dependence of changes in the resistance to crushing on the temperature at which coal was treated is related

Card 1/2

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"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9

Mechanical Strength and Polymeric Structure of Thermally Treated Coals

to the accumulation of internal stresses in the substance of solid residues. There are 4 figures and 9 Soviet references.

SUBMITTED: October 13, 1958

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9

83138

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B016/B060

5.1230
15.2220

AUTHORS: Zamoluyev, V. K., Mukhanova, L. N., Tayts, Ye. M.

TITLE: Relationship Between Thermophysical and Mechanical Properties of Highly Carbonized Polymeric Materials

PERIODICAL: Doklady Akademii nauk SSSR, 1960, Vol. 133, No. 5, pp. 1143-1145

TEXT: The authors of this paper discuss the relationship existing between specific thermal capacity, thermal diffusivity, heat conductivity, microhardness, as well as resistance to comminution of solid products. These products were obtained by thermal decomposition of fossil coals in the temperature range up to 2350°C, and can be regarded as highly carbonized polymers. At the same time, the authors established a functional relationship between variations in specific heat c_p and the magnitude of plane layers of carbon atoms. Nonsintering anthracites and Donets gas coal, whose variations in strength had been studied previously (Ref. 3), were examined. Proceeding from the experimental results

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83138

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B016/B060

Relationship Between Thermophysical and Mechanical Properties of Highly Carbonized Polymeric Materials

obtained by the determination of the specific heat and of heat conductivity as well as of the weight by volume, the authors calculated the values of the coefficient of heat conductivity. Microhardness was determined by an apparatus of the type ПМТ-2 (PMT-2) devised by M. M. Khrushchev and Ye. S. Berkovich; the resistance to comminution was established with the aid of the ВИМС(VIMS) microdispergometer. The materials examined chiefly consisted of carbon; therefore, the variations in thermophysical and mechanical properties of highly carbonized polymers are, on the whole, related to their structural transformations. As can be seen from Figs. 1 and 2, there is a regular relationship between the specific heat and the expansion L of the plane layers of carbon atoms of highly carbonized polymers. With increasing L the number of carbon atoms deposited in single layers also rises. Consequently, the high-frequency oscillations of these atoms decrease in the range of Debye temperatures. An increase in the extension of plane layers of carbon atoms is the main cause of a drop in specific heat of highly carbonized polymers. Moreover, on a thermal decomposition of coals up to 1100°C, the chemical bonds

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"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135520014-9

Relationship Between Thermophysical and Mechanical Properties of Highly Carbonized Polymeric Materials

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between carbon atoms become closer. This is in agreement with results obtained and with a sudden rise in microhardness and heat conductivity when heating the initial coals up to 1100°C (Fig. 3). When the decomposition temperature rises beyond 1100-1300°C, processes of thermal destruction of the carbon side chains and a growth in the plane layers of carbon atoms take place until the stage of graphitization. The resistance to comminution of coals depends on two factors: material hardness and plasticity. Microhardness increases in the first heating stage (Fig. 3). The material also becomes more brittle. Hence, the resistance to comminution remains fairly constant, or even drops. The results obtained make it possible to evaluate the thermal stability of highly carbonized polymers, and can be used for the production of such materials with given thermomechanical properties. There are 3 figures and 3 Soviet references.

ASSOCIATION: Institut goryuchikh iskopayemykh Akademii nauk SSSR (Institute of Mineral Fuels of the Academy of Sciences, USSR)

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Relationship Between Thermophysical and Mechanical Properties of Highly Carbonized Polymeric Materials

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IL'YASHENKO, Yu.; MUKHANOVA, N., red.

[Fruits of the land; sketches on the virgin lands] Khleb-sol'; ocherki o tseline. Alma-Ata, Kazgoslit-izdat, 1964. 320 p. (MIRA 18:5)

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CA MUKHANOVA, V.L.

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The influence of continuous fertilizer applications on the agrochemical properties of the gray semidesert soils

V. L. Mukhanova. *Pochvovedenie* (Pedology) 1949, 348-55. Data on two series of expts. of long years of continuous applications of manure and mineral fertilizer show soils in cotton with alfalfa in rotation, or continuous cotton with manure or mineral fertilizer can increase the org matter content as well as N and P, the increase being greater with manure. With fertilization, manure or mineral, the nitrification activity increases. The fertilized soils show an increase in total and available P.

I. S. Joffe

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MUKHANOVA, V.L.

USSR / Cultivated Plants. Plants for Technical Use.
Oil Plants. Sugar Plants.

Abs Jour : Ref Zhur - Biol., No 8, 1958, No 34730

Author : Mukhanova, V.; Sultanov, A.
Inst : Not given
Title : Enriching of Cotton Plants with Organic Minerals.

Orig Pub : Khlopkovidstvo, 1957, No 5, 16-18

Abstract : No abstract given.

Card 1/1

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USSR/Cultivated Plants - Potatoes. Vegetables. Melons. etc. M.

Abs Jour : Ref Zhur - Biol., No 4, 1958, 15649

Author : A.V. Alpat'yev, Yu.I. Mukhanova
Inst : -
Title : The Artificial Hybridization of the Kidney Bean. (Iskusstvennaya Gibridizatsiya fasoli).

Orig Pub : Vestn. s.-kh. nauki, 1957, No 6, 119-123.

Abstract : The results of two years studies made at the Gribovskaya Station are presented. Up to 50-100% of the hybrid plants were successfully obtained without the emasculation of the flowers. The F_1 from a cross between the Salharnaya Gribovskaya B-0802 and the Latviya B-800, Saksa String-less 615 and the Early Maslyanaya varieties was notable for its rapid ripening and fine, full beans. Heterosis was clearly pronounced (in yielding capacity, the size of the beans and leaves, the intensity of growth), these features distinguishing it from hybrids stemming from

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